Computing Progression of Skills				
Threshold	EYFS	Milestone 1 (Years 1 and 2)	Milestone 2 (Years 3 and 4)	Milestone 3 (Years 5 and 6)
Concept				
Online Safety	Use project evolve to develop understanding of their online presence through the following strands: Self-image and identity, online relationships, online reputation, online bullying, managing online information, health wellbeing and lifestyle, privacy and security, copyright and ownership.			
Computing Systems & Networks	Recognise technology in school and at home.	Technology around us -Recognising technology in school and using it responsibly.	Connecting computers – identifying that digital devices have inputs, processes and outputs and how devices can be connected to make networks	Systems and searching – recognising IT systems in the world and how some can enable searching on the internet
	Understand what we use technology for and how to use it safely	Information technology around us – Identifying IT and how its responsible use improves our world in school and beyond	The internet – recognising the internet as a network of networks including the WWW, and why we should evaluate online content	Communication and collaboration – exploring how data is transferred by working collaboratively online
Creating Media	Use apps to create simple representation of pictures, text and	Digital painting – choosing appropriate tools in a program to create art and making comparisons with working non-digitally.	Stop-frame animation – capturing and editing digital still images to produce a stop-frame animation that tells a story	Video production – planning, capturing and editing video to produce a short film  Introduction to vector graphics – creating
	animation  Use digital technology to	Digital writing – using a computer to create and format text, before comparing to writing non-digitally	Desktop publishing – creating documents by modifying text, images and page layouts for a specified purpose	images in a drawing program by using layers and groups of objects  Webpage creation – designing and creating
	explore photography and sound recording.	Digital photography – capturing and changing digital photographs for	Audio production – capturing and editing audio to produce a podcase, ensuring that copyright is considered	webpages, giving consideration to copyright, aesthetics and navigation
		different purposes  Digital music – using a computer as a tool to explore rhythms and melodies, before creating a musical composition	Photo editing – manipulating digital images and reflecting on the impact of changes and whether the required purpose is fulfilled	3D modelling – planning, developing and evaluating 3D computer models of physical objects
Data & Information	Understand that objects can be grouped in	Grouping data – exploring object labels, then using them to sort and group objects by properties.	Branching databases – building and using branching databases to group objects using yes/no questions	Flat-file databases – using a database to order data and create charts to answer questions
	different ways. Use talk to organise thinking.	Pictograms – collecting data in tally charts and using attributes to organise and present data on a computer	Data logging – recognising how and why data is collected over time, before using data loggers to carry out an investigation	Introduction to spreadsheets – answering questions by using spreadsheets to organise and calculate data
Programming	Talk about and identify patterns. Extend and create patterns. Notice	Moving a robot – writing short algorithms and programs for floor robots and predicting program outcomes	Sequencing sounds – creating sequences in a block-based programming language to make music.	Selection in physical computing – exploring conditions and selection using a programmable microcontroller
	and correct errors in patterns.  Explore floor	Programming animations – Designing and programming the movement of a character on screen to tell stories	Events and actions in programs – writing algorithms and programs that use a range of events to trigger sequences of actions	Selection in quizzes – exploring selection in programming to design and code an interactive quiz
	robots through play scenarios and begin to explore simple	Robot algorithms – creating and debugging programs and using logical reasoning to make predictions	Repetition in shapes – using a text-based language to explore count-controlled loops when drawing shapes	Variables in games – exploring variables when designing and coding a game
	programming	Programming quizzes – designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz	Repetition in games – using a block-based programming language to explore count-controlled and infinite loops when creating a game	Sensing movement – designing and coding a project that captures inputs from a physical device.

